

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**LISTING OF CLAIMS:**

Claims 1, 2, 3, 4, 5, 6: Canceled

**Claim 7.** Canceled

Claim 8. (previously presented)

Sprinkler apparatus comprising:

2 a base adapted for attachment to a sprinkler assembly,

a nozzle mounted on said base,

4 said nozzle having a passage adapted to provide a liquid jet of a generally rectilinear cross-sectional configuration,

6 means to supply liquid under pressure to the nozzle,

a reflector surface disposed to be impacted by said 8 liquid output jet from the nozzle,

10 said nozzle and reflector surface being defined on a unitary nozzle device which is force-fitted into the base,

12 said reflector surface being adapted and contoured to reflect said liquid jet in a spray to an area to be sprayed, said spray being of cross-sectional configuration generally 14 similar to the rectilinear cross-sectional configuration of said liquid jet,

(continued)

## Claim 8. (previously presented - continued)

16           the reflector surface having variations in the surface  
to reflect respective portions of spray at respective  
18           inclinations from the reflector to define respective portions  
of a predetermined spray pattern to respective portions of an  
20           area to be sprayed,

22           whereby a spray pattern of a predetermined rectilinear  
cross-sectional configuration from the reflector surface is  
applied to the area to be sprayed.

## Claim 9. (original)

Apparatus according to Claim 8, wherein the surface  
2           configuration of the reflector is generally convex in two  
directions substantially at right angles to each other.

## Claim 10. (original)

Apparatus according to Claim 9, wherein variations  
2 in the general convex contour of the reflector surface to  
effect respective inclinations of spray portions, may be  
4 determined (a) empirically, (b) preferably by utilization  
of computer equipment and insertion thereinto of data  
6 including geometric relations of parts, angles, and dimensions.

## Claim 11. (original)

Apparatus according to Claim 8, wherein the reflector  
2 surface is defined on a flexible member on the apparatus,  
and further including:

4 a threaded member in an opening in the apparatus for  
adjustment of the configuration of the reflector.

## Claim 12. (previously presented)

Apparatus according to Claim 8, wherein a step shoulder  
2 is defined in a wall portion of the nozzle apparatus adjacent  
an outlet end of the nozzle passage to deflect the liquid jet  
4 from an innermost portion of the reflector surface to prevent  
interference by inaccurate spray from the innermost reflector  
6 surface portion.

## Claim 13. (previously presented)

Apparatus according to Claim 8, wherein the nozzle  
2 and reflector surface are defined on the unitary nozzle device  
having portions thereof adapted to be snapped into an upper  
4 portion of the base to mount the nozzle device on the base.

## Claim 14. Canceled

## Claim 15. Canceled.

## Claim 16. (previously presented)

Sprinkler apparatus comprising:

2 a base adapted for attachment to a sprinkler and for  
liquid passage therethrough,

4 a unitary nozzle device mounted on said base,

6 said unitary nozzle device comprising an integrally  
formed nozzle passage and an integral reflector surface disposed  
in spaced-apart confronting relation, said reflector surface  
8 being disposed to be impacted by a liquid jet from the nozzle  
passage,

10 said unitary nozzle device providing dimensional accuracy  
as between the nozzle and the reflector surface to enable  
12 accurate performance of the nozzle device and accurate  
repeatability in manufacture of the device,

14 said nozzle passage being adapted to provide the liquid  
jet in a generally predetermined cross-sectional configuration,

(continued)

## Claim 16. (previously presented - continued)

16           said reflector surface being contoured and adapted to  
reflect said liquid jet in a spray to an area having a cross-  
18    sectional configuration to be sprayed which is generally  
similar in cross-sectional configuration to that of said  
20    liquid jet, and

22           a step shoulder defined in a wall portion of the nozzle  
device adjacent an outlet end of the nozzle passage to deflect  
the liquid jet from an innermost portion of the reflector  
24    surface to prevent interference by inaccurate spray from the  
innermost reflector surface portion,

26           whereby a spray pattern of a substantially predetermined  
cross-sectional configuration is applied to an area to be  
28    sprayed.

Claim 17.      Canceled

Claim 18.      Canceled

Claim 19.      Canceled

Claim 20. (previously presented)

Sprinkler apparatus comprising:

2 a base adapted for attachment to a sprinkler and for  
liquid passage therethrough,

4 a unitary nozzle device mounted on said base,

6 said unitary nozzle device comprising an integrally  
formed nozzle passage and an integral reflector surface disposed  
in spaced-apart confronting relation, said reflector surface  
8 being disposed to be impacted by a liquid jet from the nozzle  
passage,

10 said unitary nozzle device providing dimensional  
accuracy as between the nozzle and the reflector surface to  
12 enable accurate performance of the nozzle device and accurate  
repeatability in manufacture of the device,

14 a generally circular lower portion of the nozzle device  
being force-fitted into a circular opening in the base, and  
16 wherein an interior wall of the base provides a wall of the  
nozzle passage,

(continued)

## Claim 20. (previously presented - continued)

18           said nozzle passage being adapted to provide the liquid  
jet in a generally predetermined cross-sectional configuration,  
20           and

22           said reflector surface being contoured and adapted to  
reflect said liquid jet in a spray to an area having a cross-  
sectional configuration to be sprayed which is generally  
24           similar in cross-sectional configuration to that of said  
liquid jet,

26           whereby a spray pattern of a substantially predetermined  
cross-sectional configuration is applied to an area to be  
28           sprayed.

Claims 21, 22, 23, 24:           Canceled